

Clean Diesel Technologies, Inc.

Powering a new generation of clean vehicles

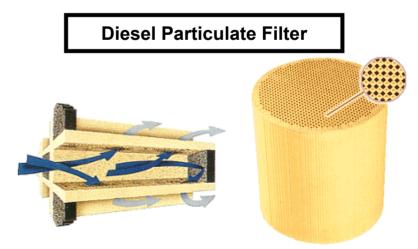
"A leading provider of environmentally-proven technology and solutions for the global emission reduction market, sharing our success with our stakeholders and our community, paving the way for today's and future generations"

Platinum Plus Emission Reduction Systems





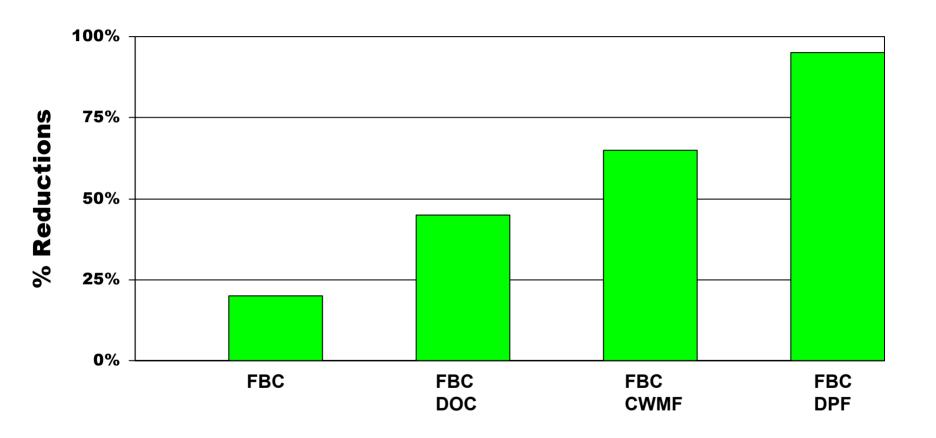






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Particulate Emission Reduction Results (Typical Performance with ULSD)





What is Platinum Plus® (FBC)

- Fuel borne Platinum/Cerium catalyst that takes catalytic activity into the combustion chamber which
 - Promotes more complete combustion
 - Reduces engine out emissions
 - Improves fuel economy by 2-8%
- Registered with U.S. EPA for use in on-highway fuel
- Compatible with all diesel fuels (No.2D, K-1, ULSD, and bio-diesel
- 30 million miles of trouble free use
- Enhances the performance of particulate emissions control devices (DOC/CWMF/DPF)



Platinum Plus FBC/DOC System EPA Verified

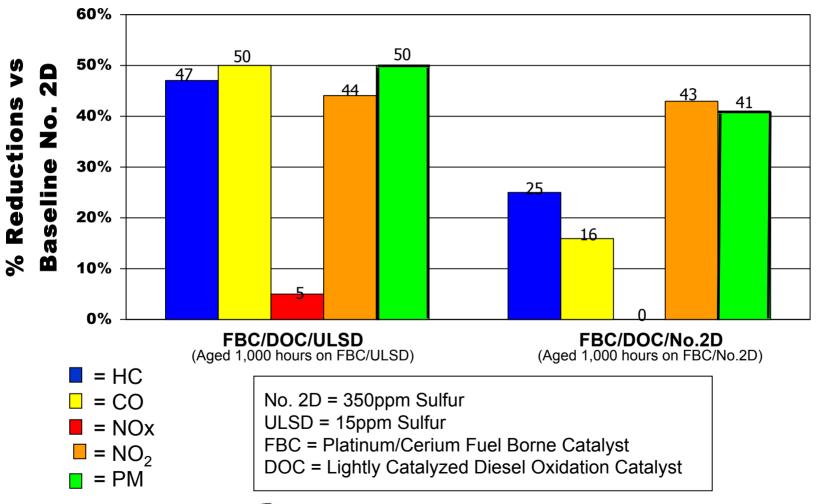




- Verified for use with treated No. 2D or ULSD
- Easily installed as muffler replacement
- EPA registered fuel borne catalyst (FBC) is easily added to vehicle tanks or bulk fuel storage
- FBC reduces engine out emissions and maintains highest DOC activity
- Average fuel economy improvement offsets cost of FBC
- Over 2,000 applications and 50 million miles of trouble free FBC use



Platinum Plus® Purifier (FBC/DOC) Emission Test Results in Support of EPA Verification









- Beverage Delivery
- Pennsylvania
- Fuel Pump Dosing system









- School Bus
- New England
- Hand treat bulk fuel supply







- Star Construction
- Northeast
- Hand treated with cylinders









- 12 Over-the-road Class-8 Refuse Hauling trucks
- South Florida
- Hand treat Bulk fuel supply







- Landfill Operation
- Northeast
- On-Board Dosing system









- Refuse Transfer Station
- Northeast
- Wet-Hose delivery of treated fuel







- Refuse Collection
- Pennsylvania
- Fuel Pump Dosing system



Platinum Plus FBC/CWMF System



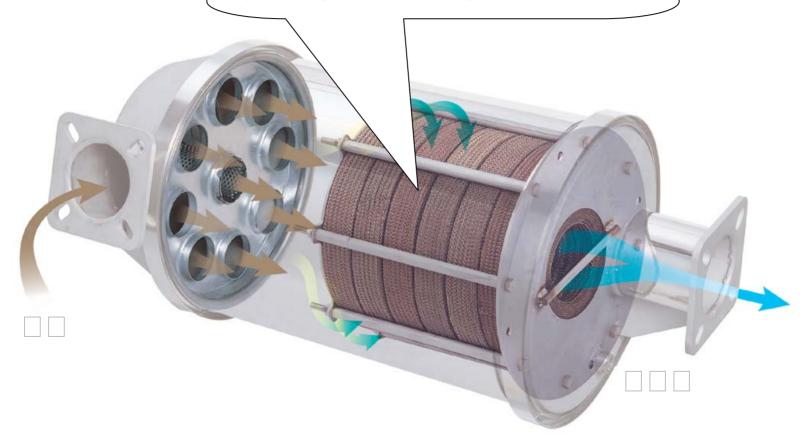


- EPA verified for 55-75% PM Reduction
 - 1991-2003 Engines
 - No. 2D or ULSD
- Lightly catalyzed for low NO₂
- Low temperature operation
 - 25% > 225°C on ULSD
 - 40% > 225 °C on No. 2D
- Proven durability
- Level 2 application submitted to CARB



PM collection and filter regeneration

- 1) Platinum Plus oxidizes soot
- 2) Deep bed filter helps to oxidize soot



FBC/CWMF: 65-75% PM Reduction



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Platinum Plus FBC/CWMF Retrofit



- Beverage Delivery
- 12 Month Demonstration
- Texas
- Delivery of treated fuel





Platinum Plus FBC/CWMF Retrofit





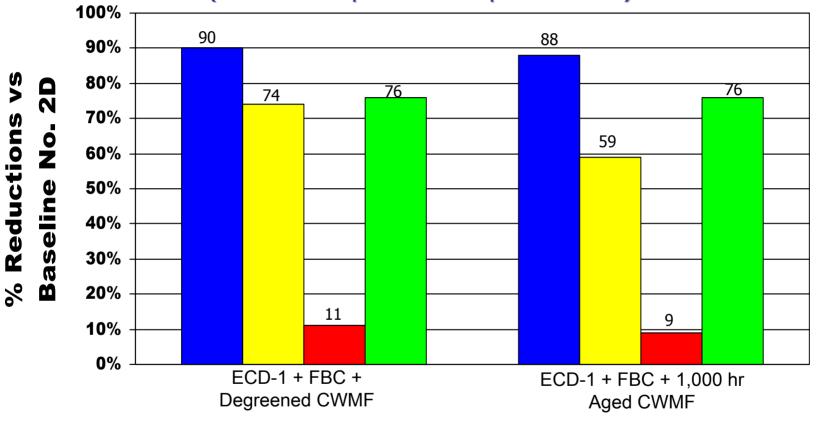
- Refuse Trucks
- 18 Month Demonstration
- California
- Fuel Pump Dosing System





Emissions Reduction for FBC/CWMF/ULSD versus Baseline No. 2D 1991 Certified Cummins 8.3

(Mean of Triplicate Composite FTPs)



■ = HC

□ = CO

= NOx

= PM

No. 2D = 350ppm Sulfur ECD-1 = <15ppm Sulfur

FBC = Pt/Ce Fuel Borne Catalyst
CWMF = Lightly Catalyzed Wire Mesh Filter



Benefits of Bimetallic FBC Based Filter Systems

- Lowers soot oxidation temperature to 280-320°C
- Allows lower catalyst loading at 3-5 gr/cu ft versus 60-90 gr/cu ft
- Reduces frequency and length of supplemental regeneration
- Bimetallic minimizes ash from FBC due to low dose rates
 8 ppm versus 15-30 ppm
- Reduces frequency of filter cleaning
- Lowers backpressure by reducing soot loading to DPF
- Concentrated to 1 gallon treats 1,500 gallons of fuel

Platinum Plus Dosing Options



Pre-Treated Fuel
Delivery by Fuel Supplier

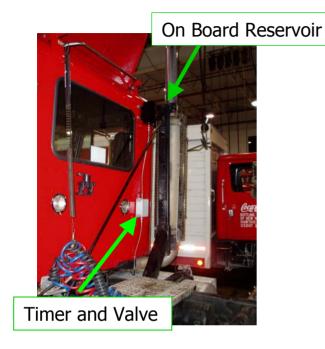






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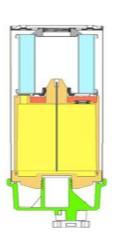
Platinum Plus Dosing Options



 Low Cost CDT on board dosing system provides FBC treatment regardless of fueling choice







- "Smart Fuel Filter" with FBC under development with Fleetguard
- Designed to deliver FBC during normal service interval



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Platinum Plus® Fleet Test Summary

(Average MPG Improvement = 8%)

